

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

Sub 1
1 Claim 1 (currently amended): A distributed market based control assembly for
2 a structure comprising:

3 multiple actuators, each of the multiple actuators having an actuator controller that
4 is responsive to price information to control an applied force by the actuator
5 on the structure;[[,]] and

6 an electrical conductor for transmitting voltage and accumulating charge, referred
7 to as a marketwire; the marketwire being connected to each actuator controller
8 to convey the price information to the actuator controllers by analog
9 fluctuations in an electrical characteristic[[s]] of the marketwire.

1 Claim 2: (currently amended) The distributed market based control assembly
2 for a structure of claim 1, wherein the analog fluctuations in the electrical
3 characteristic[[s]] of the marketwire are voltage changes.

1 Claim 3: (currently amended) The distributed market based control assembly
2 for a structure of claim 1, wherein the analog fluctuations in the electrical
3 characteristic[[s]] of the marketwire are current changes.

1 Claim 4 (currently amended): A distributed market based control assembly for
2 a mobile structure comprising:
3 multiple actuators, each of the multiple actuators having an actuator controller that
4 is responsive to price information to control the applied force by the actuator
5 to collectively promote movement of a structure from a first position to a
6 second position,
7 a sensor for measuring the movement of the structure from the first position to
8 [[a]] the second position, and
9 an electrical conductor for transmitting voltage and accumulating charge, referred
10 to as a marketwire; the marketwire being connected to each actuator controller
11 to convey price information to the actuator controllers by analog fluctuations in
12 an electrical characteristic[[s]] of the marketwire.

1 Claim 5: (currently amended) The distributed market based control assembly
2 for a mobile structure of claim 4, wherein the analog fluctuations in the electrical
3 characteristic[[s]] of the marketwire are voltage changes.

1 Claim 6: (currently amended) The distributed market based control assembly
2 for a mobile structure of claim 4, wherein the analog fluctuations in the electrical
3 characteristic[[s]] of the marketwire are current changes.

1 Claim 7 (currently amended): A distributed market based control assembly for
2 damping structure movement comprising:
3 multiple actuators, each of the multiple actuators having an actuator controller that
4 is responsive to price information to control applied force by the actuator to
5 collectively counter movement of a structure from a first position to a second
6 position,

7 a sensor for measuring movement of the structure from the first position to [[a]]
8 the second position, and
9 an electrical conductor for transmitting voltage and accumulating charge, referred
10 to as a marketwire; the marketwire being connected to each actuator controller
11 to convey price information to the actuator controllers by analog fluctuations in
12 an electrical characteristic[[s]] of the marketwire.

1 Claim 8: (currently amended) The distributed market based control assembly
2 for damping structure movement of claim 7, wherein the analog fluctuations in the
3 electrical characteristic[[s]] of the marketwire are voltage changes.

1 Claim 9: (currently amended) The distributed market based control assembly
2 for damping structure movement of claim 7, wherein the analog fluctuations in the
3 electrical characteristic[[s]] of the marketwire are current changes.

1 Claim 10: (new) The distributed market based control assembly for a
2 structure of claim 1 further including a sensor connected to the marketwire for
3 measuring the movement of the structure; operation of the sensor changing the
4 price information by causing an analog fluctuation in the electrical characteristic of
5 the marketwire.

1 Claim 11: (new) The distributed market based control assembly for a mobile
2 structure of claim 4, wherein the multiple actuators are air jets, and the structure is
3 a sheet of paper; the actuator controllers being responsive to price information to
4 control the applied forces of the air jets to collectively promote movement of the
5 sheet of paper from a first position to the second position in a paper path.

1 Claim 12: (new) The distributed market based control assembly for a mobile
2 structure of claim 4, wherein the mobile structure is a robotic arm formed by struts
3 interconnected by rotational elements; wherein the actuator controllers responsive
4 to price information control the applied forces of the multiple actuators to
5 collectively promote movement of at least one of the struts from a first position to
6 a second position.

1 Claim 13 (new): A market based control system for controlling movement of a
2 structure comprising:
3 multiple producing units for applying forces to the structure to effect the
4 movement;
5 multiple consuming units for sensing the movement of the structure; and
6 an electrical conductor connecting the multiple producing units to the multiple
7 consuming units; operation of each of the multiple producing units and the
8 multiple consuming units causing an analog fluctuation in an electrical
9 characteristic of the conductor; the electrical conductor transmitting and
10 receiving market price information encoded as measurable analog fluctuations
11 in the electrical characteristic of the conductor; operation of the producing units
12 to effect movement of the structure being determined in response to the
13 market price information.